PUSH TOUCH UNIT D4AA UE0733

VR1752/VR1753/VR1754 GR0231XM,GR0231XM

CONT
BRIGHT
COLOR
SOUND
AFT

VR754 <B-10K>
VR753 <B-10K>
VR752 <B-10K>
VR751 ES0020XA <B-10K>
VR701-8 GR0232 <B-100K>
VR701

TO KN1
TO KN2
TO KN3
TO KN4
TO KN5
TO KN6
TO KN7
TO KN8
TO KN9

K7D SW751 ES0020

SW701-8 ES0057

SW701 LD701 VR702
SW702 LD702 VR703
SW703 LD703 VR704
SW704 LD704 VR705
SW705 LD705 VR706
SW706 LD706 VR707
SW707 LD707 VR708
SW708 LD708

R705 R703 R701
R702 Q701
R704 Q702
Q703 R706

R701/R703/R705 1/4FPJ1.2K
R702/R704/R706 1/4FPJ12K
Q701/0702/0703 2SA933S

C701 CDP 2200F
D741 UPC574J; L5630

K7B
K7C

15	5.0V	6.4V	16
14	7.0V	4.7V	17
13	11.8V	4.6V	18
12	5.0V	4.6V	19
11	0V	5.8V	20
10	4.1V	4.2V	21
9	4.1V	2.8V	22
8	4.1V	2.8V	23
7	4.1	6.0V	24
6	0V	0.48V	25
5	0.02V	6.0V	26
4	12.1V	6.0V	27
3	4.4V	0.72V	28
2	4.4V	4.6V	29
1	3.8V	5.8V	30

IC101

PCC UNIT D4AA UE0734

K24B K24A

KW-1
C459-2
C459-1
FROM MAIN UNIT

R2401 FPJ 3.3K
C2401 6.3EEM 220
R2402 FPJ 120K
R2403 FPJ 18K
C2402 10EEM J3
R2404 FPJ 12
R2405 FPJ 8.2K
R2406 FPJ 560
R2407 FPJ 720
R2408 FPJ 2.7K
R2409 1/2FPJ 120
C2403 25EEM 4.7
R2410 FPJ 3.3K
C2404 25EEM 4.7
R2411 FPJ 1K
R2412 FPJ 27
R2413 FPJ 2.2K
C2405 16EEM 220
C2406 25AEK 0.47
C2435 200NRJ 0.15
C2436 200NRJ 0.2
Q2401 1SI555
Q2401 2SC536(E,F); 2SC945A(Q,R); 2SC1815(O,Y); 2SC1740(Q,R)
Q2402 2SA608(E,F); 2SA564A(O,R); 2SA1015(Y,G); 2SA933(Q,R)
Q2403 2SC2073R(D,E)
Q2404

C435-1
C435-2
FROM MAIN UNIT

A151	PIN	1	2	3	4	5	6	7	8
	VOLT.	5.8V	0V	4.6V	4.6V	4.7V	6.4V	0V	0V

Q403	VOLT.	WAVEFORM
B	2.3V	1.0VP-P HORIZ.
C	0V	-----
E	3.0V	1.0VP-P HORIZ.

31 0.3VP-P HORIZ.
30 1.5VP-P HORIZ.
27 15.0VP-P HORIZ.
24 0.05VP-P HORIZ.
21 0.4VP-P HORIZ.
20 0.14VP-P HORIZ.

Z901A/B ET0068
ROD ANT UNIT D4AA UE0811
W903 E3916I
ANT UNIT 82JA U8807J3

MAIN UNIT D4AA UE0731E

KN

R129 FPJ2.7K
C130 CDZ 0.01F
B6 12V
X130 EX0024XF <6.5MHZ>
VIDEO AMP,VIDEO DET.,AGC,AFT, SIF AMP & DEMOD.
IC101 QC0031A <MS1354AP>
A151 JU0006
L130 LDK 820
R130 FPJ 100
R132 FPJ 390
R131 FPJ 3.9K
R133 FPJ 220
C129 CDZ 0.01F
FM DET.
AUDIO DRIVER
LIMITER AMP
ATT
SIF DET.
X161 E6324 <5.5MHZ FILTER>
C151 FRK1800
C161 16EEM 10
C132 CDZ 0.01F
C136 CDZ 0.01F
C133 CDZ 0.01F

C102 CDJ 0.01F
X102 X103 40.4MHZ 31.9 MHZ
A101 T0004ICA <T0004ICA>
ANT
IF
MB
AFT
VLB
AGC
VHB
TU
UB
TP-A
KK

R102 FPJ 4.7K
R104 1/4 FPJ220
T101 S8171 <SIF MATCHING TRANS>
SAW FLTR
X101 EX0050XS <38.9MHZ>
C106 CDZ 0.01F
C107 CDZ 0.01F
B6 12V
C110 25EEM 4.7
C111 25EEM 4.7
C112 EEM1
C113 FRK0.1
C114 25EEM 4.7
R120 22PJ 10K
B1 130V
R101 FPJ 1K
R105 FPJ22
R107 1/4FPJ 220
IF AMP
D120 1SI555
Q101 2SC2216 <2SC2216>
TO D481
C124 500CDK 365L
R123 FPJ 1K
C123 CDK 10008
C126 CDZ 0.01F
C127 CDZ 0.01F
C128 CDZ 0.01F
C140 CDJ 120H
C141 CDJ 120PH
T141 SL0004XY <30.5MHZ VIF>
1ST AMP
3RD AMP
2ND AMP
NOISE INV.
VIDEO DET.
AFT DET.
IF AGC
RF AGC
WHITE NOISE INVERTER
BLACK NOISE INVERTER
T131 SL0005XV <38.9MHZ VIDEO DET.>
T132 S6923 <AFT>
C139 CDJ 0.01F
C137 CDJ 100CH
C134 CDJ33 SL
R134 FPJ 1K
R140 FPJ 470
VIDEO AMP
X137 E6328 <5.5MHZ TRAP>
VR140 G0092XXM; G0092XXT; G0254XXB <B-1K>
TP-D1
TP-D2
TP-C
L107 LDK 15
R108 FPJ 100K
C120 16EEM 10
C121 CDZ0.01F
R116 FPJ 3.3K
C115 EEM1
C117 EEM3.3
L116 LDK56
R110 FPJ 100K
C142 CDK 10008
C108 FRK 0.047
R109 FPJ 270K
C109 CDZ 0.01F
R113 FPJ15K
R112 FPJ47K
C421 CDZ 0.01F
VR101 G0096XXM; G0096XXT; G0257XXB <B-5K>
R136 FPJ 180
L137 LDK15
C134 CDJ33
R137 FPJ1K
R136 FPJ 1K
C136 CDJ 56CH
R134 FPJ 1K
R141 FPJ1K
R115 FPJ390
C115 EEM1
C116 0.1

R239 FPJ 39K
VR240 G0409 XXB <B-50K>
R240 FPJ 18K
SUB BRIGHT
R234 FPJ 91K
R233 FPJ1K
TO D481
D226 1SI555
C226 25EEM 4.7
C225 EEM1
C205 16EEM 33
L203 L7346
L204 LDK47
R210 FPJ 1.2K
R205 FPJ2.2K
R200 FPJ 4.7K
R206 FPJ 3.9K
B6 12V
BUFFER
D403 2SA608 (E,F); 2SA564A (O,R); 2SA933 (Q,R); 2SA933S (O,R); 2SA1015 (O,Y)
C202 EEM 33
R202 FPJ 68K
C416 CDK15008
R419 FPJ100K
R420 FPJ 1K
C419 CDK 470B
R418 FPJ39K
R417 FPJ 5.6K
C416 25EEM4.7
R416 FPJ 220K
R415 FPJ 220
C415 25EEM 100S
C414 CDK 22008
R414 FPJ 100
R410 FPJ 22K
C411 CDZ 0.01F
R411 FPJ 560K
R412 FPJ 56K
R408 FPJ 8.2K
C408 FRJ 1500
X401 EX0005XQ <500KHZ>
R406 FPJ 2.2K
C407 CDJ220CH
C404 FRK 0.015
C405 16EEM 4.7
C403 FRJ 1200
C402 FRK 0.027
R407 FPJ 270
R405 FPJ 22K
R401 1/2 FPJ680
R402 FPJ820K
R430 FPJ 330
C431 500CDK 39008
D421
D401 ED0063 <DA02 -118>
R171 FPJ 12K
C171 EEM 1
IC171 QD0036 <LA4265>
AUDIO AMP
R192 FPJ 390
C175 16EEM 100
C191 FRK 0.012
R172 FPJ 1.2K
D172 2SC536 (F,G)
R178 FPJ220
D177 FPJ10K
Q171 2SC536 (F,G)
R177 FPJ 4.1K
C170 EEM 2.2
C195 FRK 0
R194 FPJ 3.3
C171 25EEM 470
PRE-AMP
BIAS
DRIVE
RIPPLE FILTER
POWER AMP
VCC
IC171 QD0023
IKJ
IC201 QC0007 <UPC1403>
VIDEO.COLOUR.DEFLECTION
HORIZ. DRIVE TRANS
L430 Z20006
HORIZ. OUTPUT
Q431 Q7001IZ <2SD1426>
HORIZ. DRIVE
Q430 2SC2383 (D,K)
C429 500CDK 10008
C430 25EEM A0000
R431 1/2 FPJ 1K
R432 1RPJ 270
R1450 A0000
C431 Z20006
C432 47
R433 1RPJ 270
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R1000 1RPJ 270

SPEAKER SP901 V11238

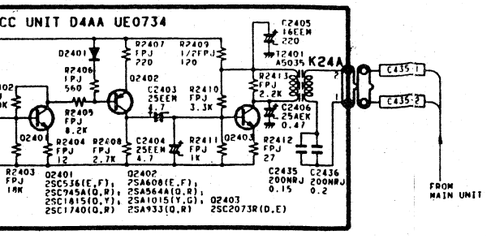
KG KD KC KB KA KJ

L901 LJ0023CHB <DEGAUSSING COIL>
C306 500CDP 4700E
R302 67WK 5.6
PS301 EV0005; 1000CDK E1587P 22000
D301/.../D304 ED0008 <RM11C>
C302 C304 D301 D303 D302 D304 C303 C305 /C305
L302 LQ0003; LQ0005; <LINE FILTER>
C310 C7229A <400EEA130>
R330 3YFK 6
VR321 G0092 XXM; <B-1K>
R8 ADJ.
C328 EEM 10
C329 EEM 10
C330 CE0009 <25EEK100>
C327 EEM 10
D333 E1534R <ES-1>
C334 500CDK 4709
D335 E1533R <EU-1>
L301 D0002; L0004A
C300 630 FRM 0.1
R301 1/2 FPJ 220K
C301 630 FRM 0.1
SW901AC ES0062
MAIN SW
NEUT
W901 EW0129KB <AC CORD>
F301 ES045 <250V T2A>
LIVE
A301 JU0114

R311 1/2FPJ 270K
R312 1/2FPJ 270K
Q311 QT00532 <2SD1403>
SWITCHING
T301 AE0017 <CONVERTER TRANS>
C308 2000CDK1000X; 2000CDK100009
R308 67WK 39
C309 500CDK 1000B
Q311A YH00458
C333 FRK 0.039
C335 E1534R <ES-1>
J4 ZZ0008
R335 2BPJ 33
C352/C355 2KCDK470X; 2KCDK4700
C363/373 1KCDK470X; 1KCDK4700
C361/362 25EEM 2200
C352
D351 ED0053 <EU01A>
C351 C7201 <250 EEA4.7>
R351 FPJ33K
R352 FPJ22
B3 180V
C350 250 EEA4.7
B1 130V
L351 L4090 <150UHK>
L352 ZZ0003
C354 C7238 <160 EEA47>
C355
D353 ED0021 <EU3A>
C353' CE00079A <160EEA 47>
TP-E
C363
D361 EU0054 <EU22>
C361
B2 16V
L361 L4082 <39UH>
C373
C362
D371 ED0054 <EU22>
R361 1RPJ 1K
R371 1/4 FPJ1K
B4 26V
C371 35EEM 470
C341 CC0007 <400CDK470>
C340 CC0005 <400CDK2200>
R340 1/2CPK 5.6MG
R341 1/2CPK5.6MG
ISOLATION PARTS

A601	PIN	1	2	3	4	5	6	7
	VOLT.	112V	112V	117V	116V	121V	120V	155V

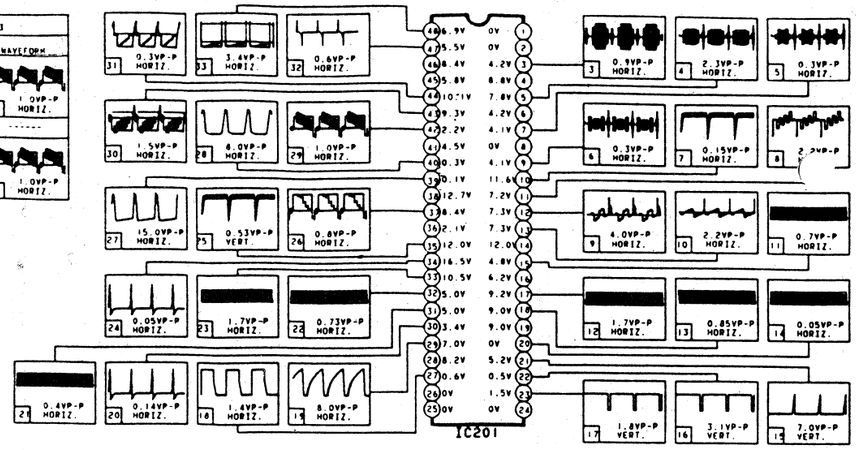
CC UNIT D4AA UE0734



	PIN	1	2	3	4	5	6	7	8
	VOLT.	5.8V	0V	4.6V	4.6V	4.7V	6.4V	0V	0V

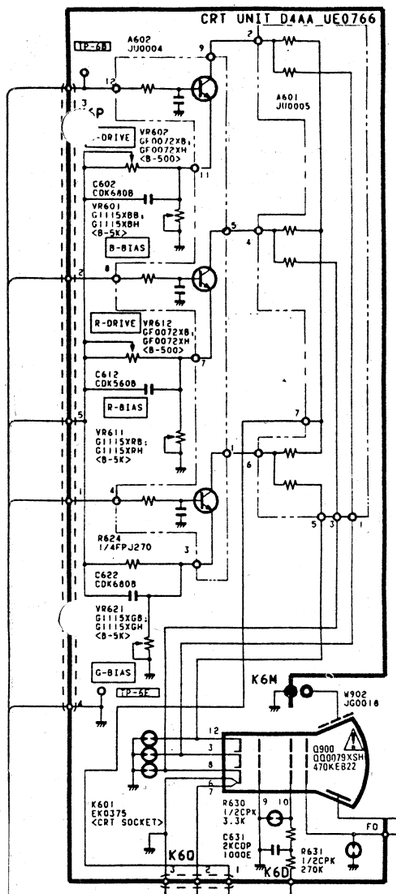
Q403

	VOLT.	WAVEFORM
B	2.3V	1 1.0VP-P HORIZ.
C	0V	------
E	3.0V	2 1.0VP-P HORIZ.



A601	PIN	VOLT.	WAVEFORM
	1	136V	
	2	70V	95Vp-p 15kHz
	3	70V	
	4	71V	
	5	135V	
	6	70V	90Vp-p 15kHz
	7	70V	
	8	71V	
	9	130V	
	10	70V	68Vp-p 15kHz
	11	70V	
	12	71V	
	13	0V	

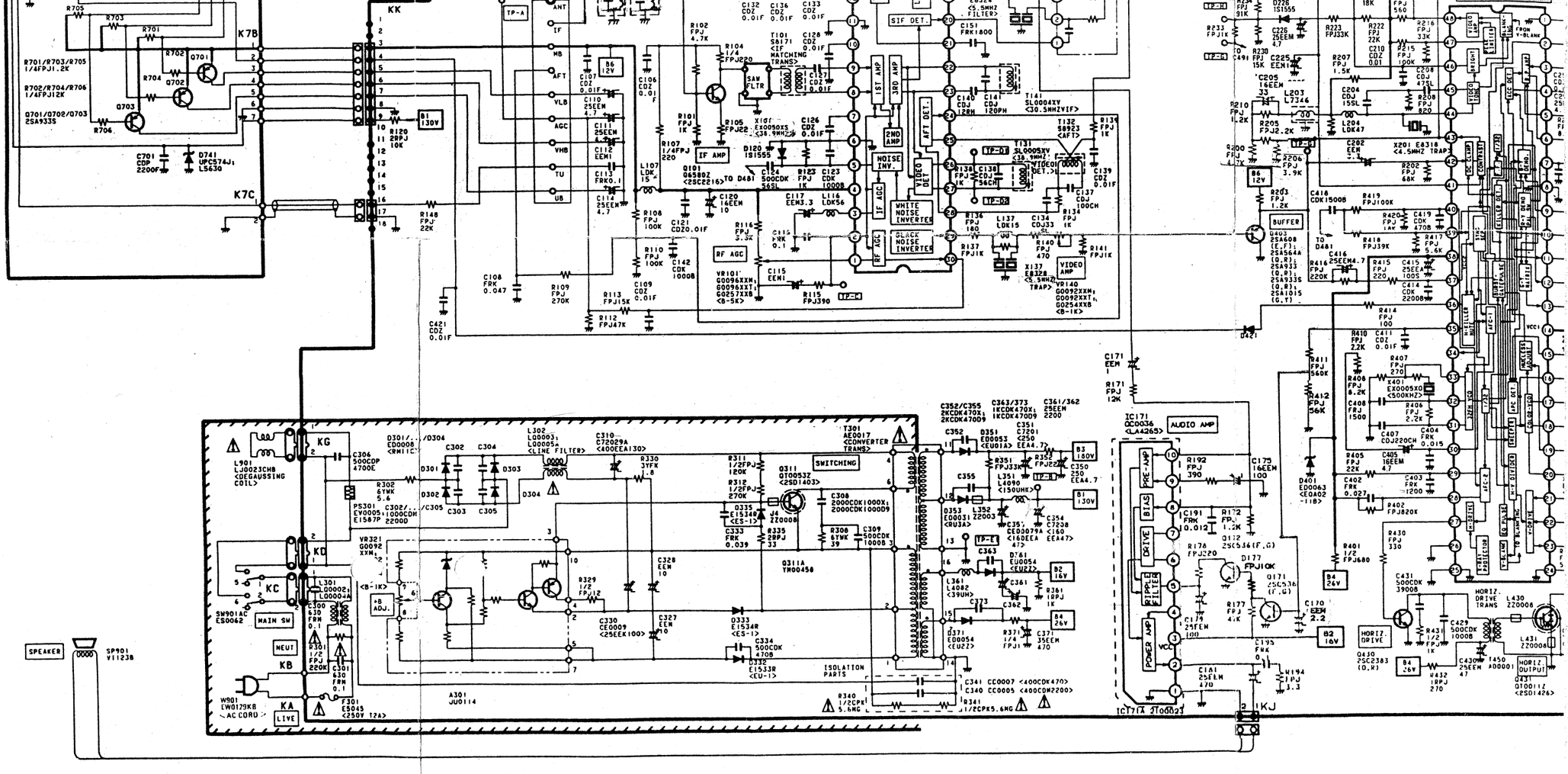
CRT UNIT D4AA UE0766



Q251	VOLT.	WAVEFORM
B	8.4V	34 2.3VP-P HORIZ.
C	12.2V	------
E	7.2V	35 2.3VP-P HORIZ.

IC480	VOLT.
1	15.0V
2	0V
3	12.2V

IC401



SERVICE PRECAUTION:

THE AREA ENCLOSED BY THIS LINE (⟷) IS DIRECTLY CONNECTED WITH AC MAINS VOLTAGE. WHEN SERVICING THE AREA, CONNECT AN ISOLATING TRANSFORMER BETWEEN TV RECEIVER AND AC LINE TO ELIMINATE HAZARD OF ELECTRIC SHOCK.

A301

PIN	1	2	3	4	5	6	7	8	9	10
VOLT.	----	-5.2V	-2.5V	-4.4V	-28.1V	-8.2V	-28.1V	-9.4V	-7.8V	0V
WAVEFORM	---	44 2.4VP-P HORIZ.		45 7.0VP-P HORIZ.		46 4.0VP-P HORIZ.				

0311

	VOLT.	WAVEFORM
B	-2.5V	47 7.0VP-P HORIZ.
C	—	48 620VP-P HORIZ.
E	0V	------

IC171

PIN	1	2	3	4	5	6	7	8	9	10
VOLT.	0V	6.0V	11.5V	0V	11.5V	6.8V	0.7V	0V	0.6V	0V

0430

	VOLT.	WAVEFORM
B	0.34V	40 0.75VP-P HORIZ.
C	14.5V	41 40VP-P HORIZ.
E	0V	------

CONDOR

COLOUR TELEVISION

83P CHASSIS SERIES

PAL-B CA 118

PRODUCT SAFETY NOTICE

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A COMPONENT REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. COMPONENTS INDICATED BY A MARK ⚠ IN THIS CIRCUIT DIAGRAM SHOW COMPONENTS WHOSE VALUE HAVE SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS SPECIFIED ON THE PARTS LIST OF SERVICE MANUAL BE USED FOR COMPONENTS REPLACEMENT POINTED OUT BY THE MARK.

CIRCUIT DIAGRAM NOTES:

1. ALL RESISTANCE VALUES ARE IN OHMS; K=1,000; M=1,000,000.
2. ALL RESISTANCE RATED WATTAGES ARE 1/6W UNLESS OTHERWISE NOTED.
3. EXCEPTING ELECTROLYTIC CAPACITORS, ALL CAPACITANCE VALUES OF LESS THAN 1 ARE EXPRESSED IN UF, AND MORE THAN 1 ARE IN PF. ELECTROLYTOC CAPACITANCE VALUES ARE IN MF.
4. ALL CAPACITANCE RATED VOLTAGES ARE 50V UNLESS OTHERWISE NOTED.
5. ALL INDUCTANCE VALUES ARE IN UH.
6. VOLTAGE READINGS TAKEN WITH A "TESTER" ARE FROM POINT INDICATED TO CHASSIS GROUND. VOLTAGE READINGS TAKEN BY USING A COLOUR BAR SIGNAL ARE WITH ALL CONTROLS AT NORMAL AND AFC SWITCH IN "OFF" POSITION . SOME VOLTAGES MAY VARY WITH SIGNAL STRENGTH.
7. WAVEFORMS WERE TAKEN WITH COLOUR BAR SIGNAL AND CONTROLS ADJUSTED FOR NORMAL PICTURE. WAVEFORMS WERE TAKEN BY USING A WIDE BAND OSCILLOSCOPE AND A LOW CAPACITY PROBE.
8. THIS CIRCUIT DIAGRAM COVERS A BASIC OR REPRESENTATIVE CHASSIS ONLY. THERE MAY BE SOME COMPONENTS OR PARTIAL CIRCUIT DIFFERANCES BETWEEN THE ACTUAL CHASSIS AND THE CIRCUIT DIAGRAM.
9. EXPRESSION OF CAPACITANCE AND RESISTANCE IN CIRCUIT DIAGRAM:

• CAPACITANCE (EXAMPLE)

1000 C C H 2200 D

- CHARACTERISTIC
- CAPACITANCE VALUE (2200PF)
- ALLOWABLE ERROR (+-20%)
- TERMINAL CONSTRUCTION
- KIND (CERAMIC)
- RATED VOLTAGE (1000V)

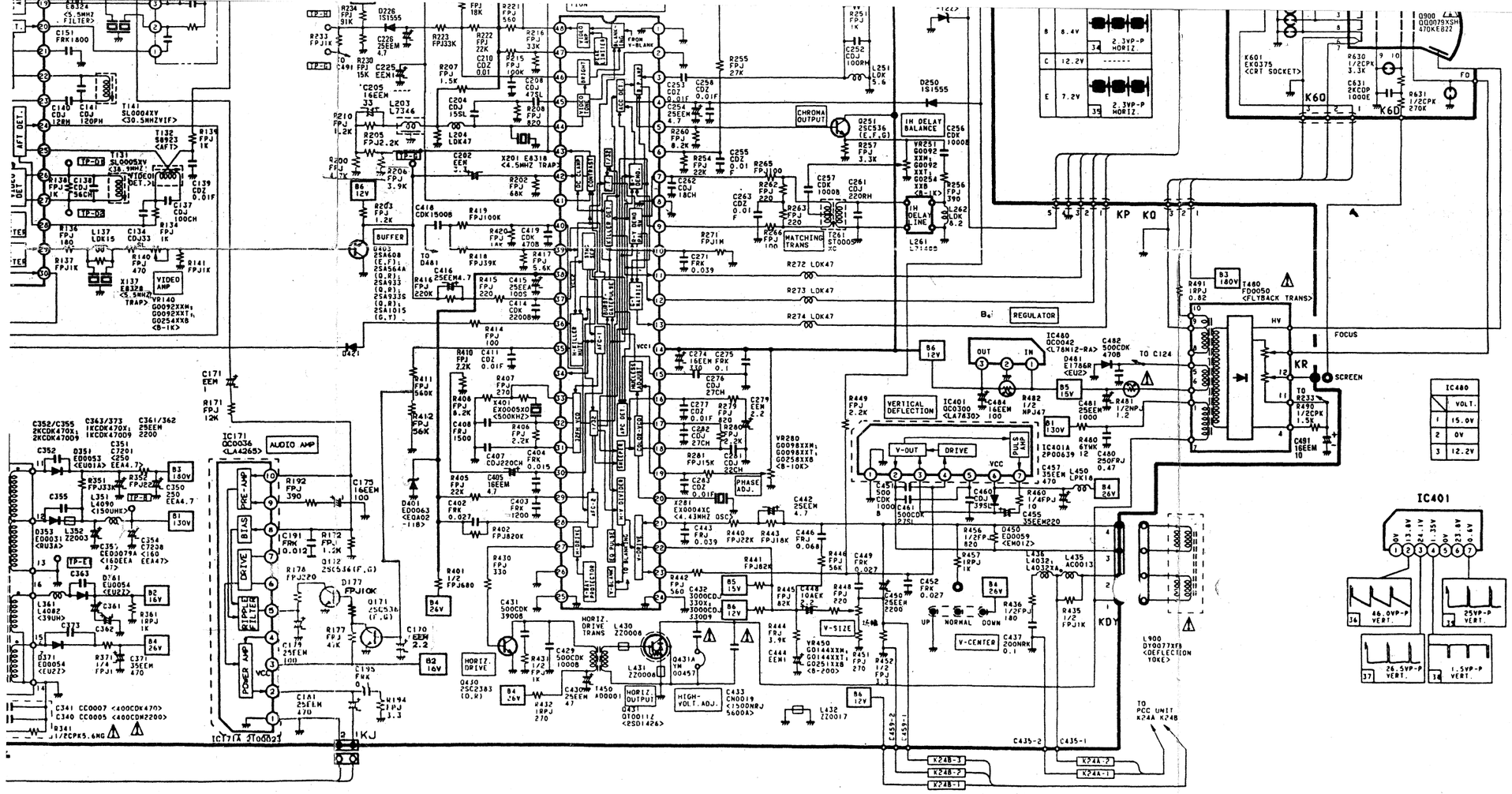
*KIND --- C ... CERAMIC, E ... ELECTROLYTIC, F ... MYLAR FILM, N ... POLYPROPYLEN

• RESISTANCE (EXAMPLE)

1/2 M P J 1.2

- RESISTANCE VALUE (1.2 OHM)
- ALLOWABLE ERROR (+-5%)
- TERMINAL CONSTRUCTION
- KIND (METALIZED CARBON)
- RATED WATTAGE (1/2W)

*KIND --- F ... CARBON, M ... METALIZED CA, P ... OXIDE METAL, Y ... WIRE WOUND, C ... SOLID



IC171	PIN	1	2	3	4	5	6	7	8	9	10
	VOLT.	0V	6.0V	11.5V	0V	11.5V	6.8V	0.7V	0V	0.6V	0V

Q430	VOLT.	WAVEFORM
B	0.34V	0.75VP-P HORIZ. (40)
C	14.5V	40VP-P HORIZ. (41)
E	0V	------

Q431	VOLT.	WAVEFORM
B	-0.03V	11.5VP-P HORIZ. (42)
C	108V	1150VP-P HORIZ. (43)
E	0V	------

IC480	VOLT.
1	15.0V
2	0V
3	12.2V

IC401

OHMS, K=1,000, M=1,000,000.
'S ARE 1/6W UNLESS OTHERWISE NOTED.
ITORS, ALL CAPACITANCE VALUES OF LESS THAN
ORE THAN 1 ARE IN PF.
UES ARE IN MF.
ES ARE 50V UNLESS OTHERWISE NOTED.
UH.
A "TESTER" ARE FROM POINT INDICATED TO
INGS TAKEN BY USING A COLOUR BAR SIGNAL
NAL AND AFC SWITCH IN "OFF" POSITION .
SIGNAL STRENGTH.
LOUR BAR SIGNAL AND CONTROLS ADJUSTED
S WERE TAKEN BY USING A WIDE BAND OSCILLO-
BE.
A BASIC OR REPRESENTATIVE CHA3313 ONLY.
OR PARTIAL CIRCUIT DIFFERANCES BETWEEN
IRCUIT DIAGRAM.

9. EXPRESSION OF CAPACITANCE AND RESISTANCE IN CIRCUIT DIAGRAM.

* CAPACITANCE (EXAMPLE)
  1000 C C H Z200 D
  - CHARACTERISTIC
  - CAPACITANCE VALUE (Z200PF)
  - ALLOWABLE ERROR (+-20%)
  - TERMINAL CONSTRUCTION
  - KIND (CERAMIC)
  - RATED VOLTAGE (1000V)

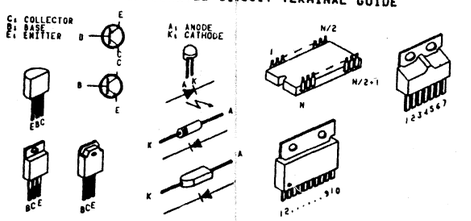
*KIND --- C ... CERAMIC
E ... ELECTROLYTIC
F ... MYLAR FILM
N ... POLYPROPYLENE

*ALLOWABLE ERROR --- G ... +-2%
J ... +-5%
K ... +-10%
M ... +-20%
Z ... +80% -20%
P ... +100% -0%

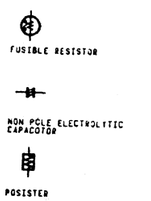
* RESISTANCE (EXAMPLE)
  1/2 M P J 1.2
  - RESISTANCE VALUE (1.2 OHM)
  - ALLOWABLE ERROR (+-5%)
  - TERMINAL CONSTRUCTION
  - KIND (METALIZED CARBON)
  - RATED WATTAGE (1/2W)

*KIND --- F ... CARBON
M ... METALIZED CARBON
P ... OXIDE METALIZED
Y ... WIRE WOUND
C ... SOLID

TRANSISTOR, DIODE & INTEGRATED CIRCUIT TERMINAL GUIDE



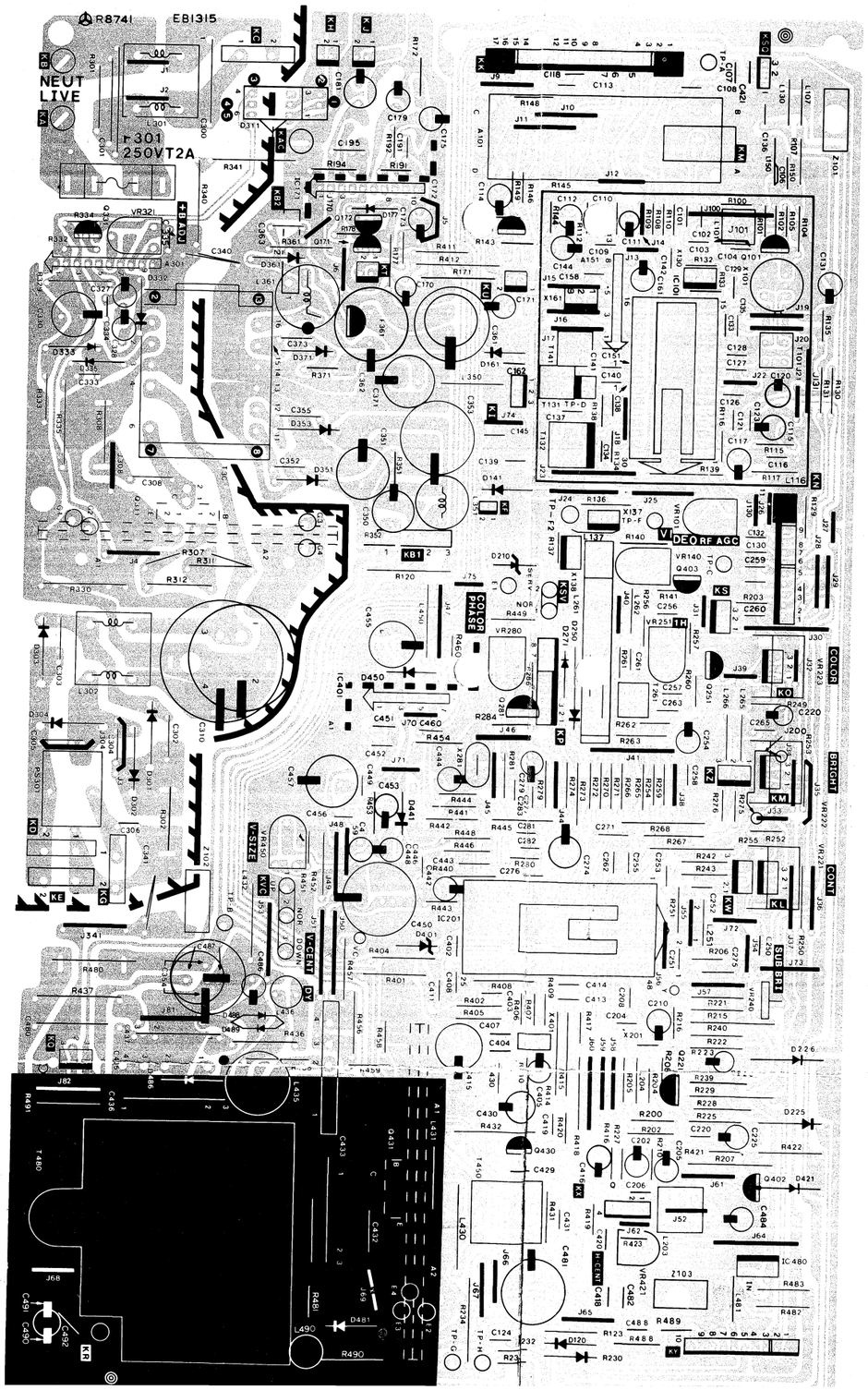
PARTICULAR PARTS SYMBOL



PRINTED CIRCUIT BOARD DIAGRAMS

MAIN BOARD

COMPONENT SIDE

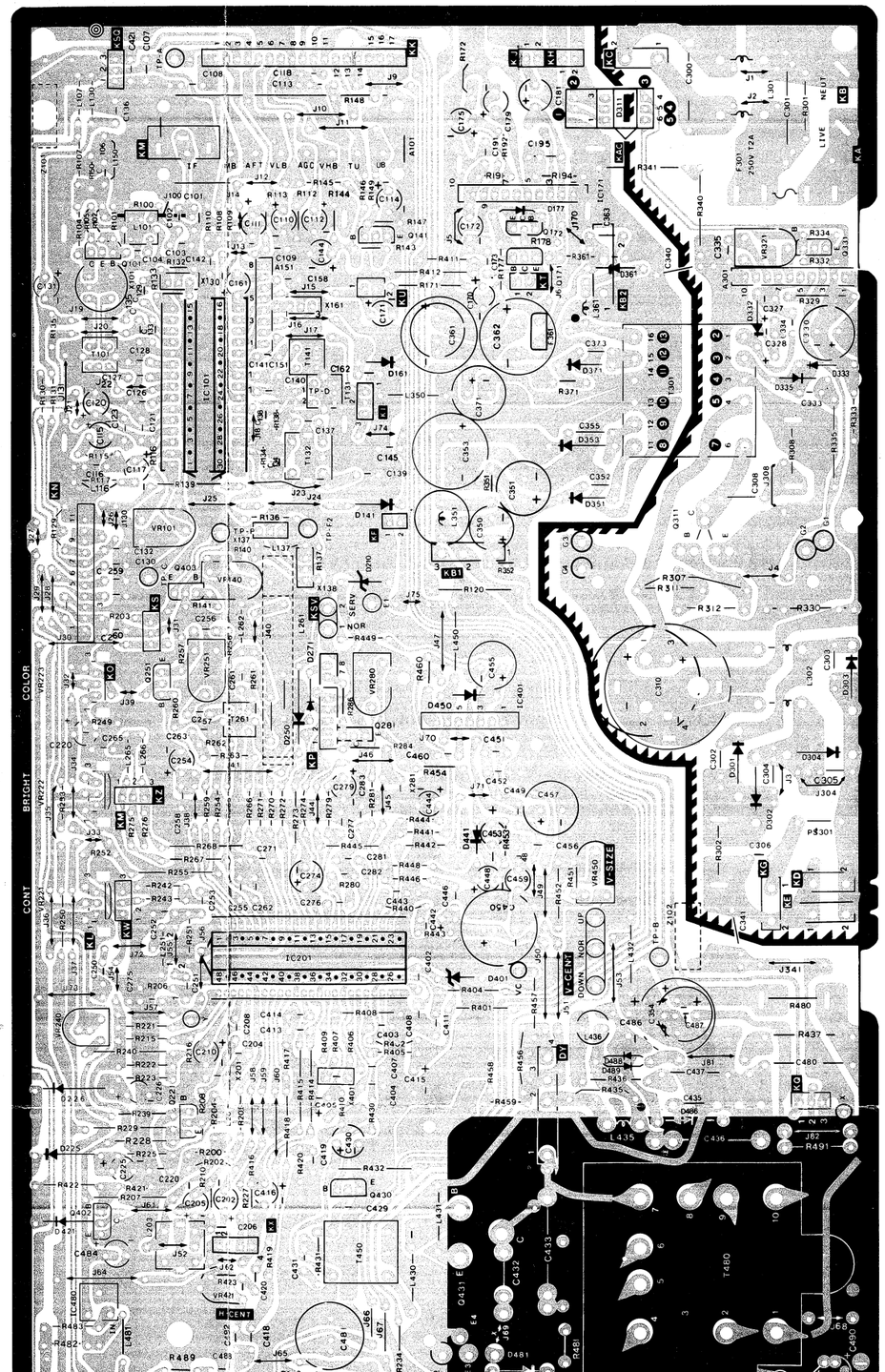


| COMPONENT LOCATION DIAGRAM | | |

N DIAGRAM

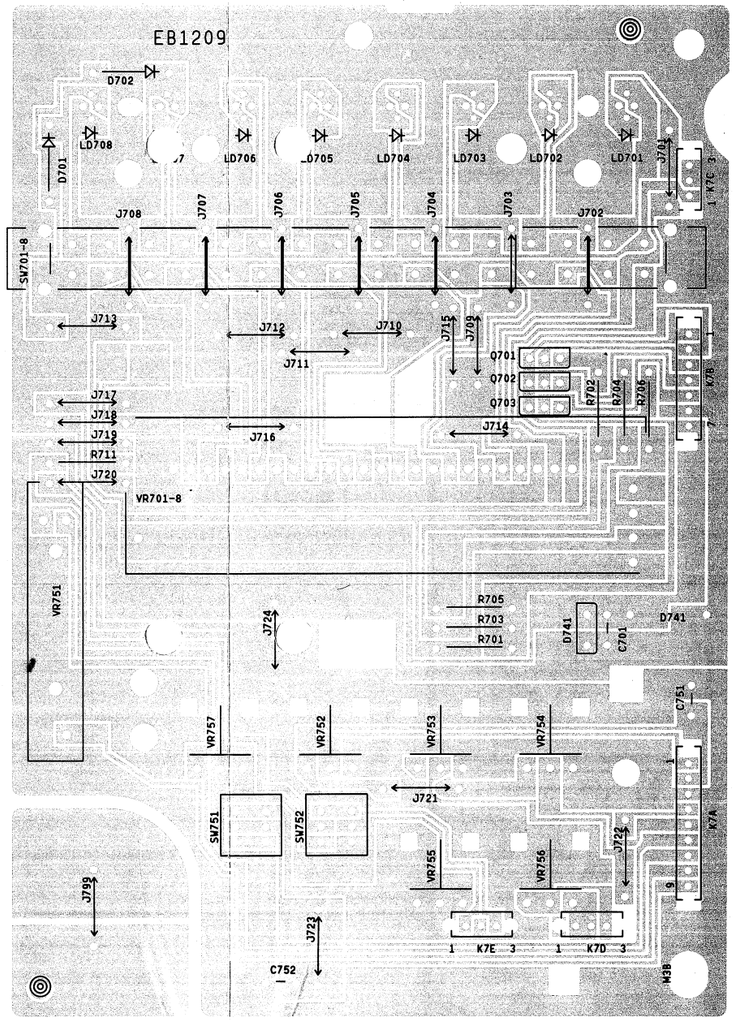
R		L T X	VR PS
48		L103 L107	
92	107	L301	
01	113		
45	109		
93	108		
49	110		
46	100		
47	101	L101	VR321
12	102		
43	105	X101	
44	104	L351	
13		X161	
71			
	135	T101 T141	
51			
	131	L350	
	130	T131	
	138		
	116		
12	134	T132	
52	115		
39		L116 T301	
	136	L357	
	129	L137	VR101
37			
51	141	X137	
40			
20	256		VR140
	203	L262	
		L261	
49		L450	
			VR280
			VR251
			VR223
	261	L265	
	260	L266	
		L302	
36			
35			
84		T261	
54	253		
	273		
74	272	X281	
79	270		
44	271		PS301
30	266		VR252
45	265		VR222
42	254		
46	259		VR450
48	268		VR221
80	267		
42	255		
43	252		
52			
43	251		
		L432	
		L251	
04	250		VR240
57	206		
01	409		
08			
07	221	L436	
06	215		
56	240		
58	216	X201	
	222	X401	
10	229		
59	223		
14	228	L204	
15	205	L205	
	208	L435	
	224		
	239		
32	226		
16	225	L431	
27	210		
02	422	T480	
21	207	T450	
		L430	
	419		
31			
		L203	
			VR421
	483		
81	481		
84			

CIRCUIT SIDE

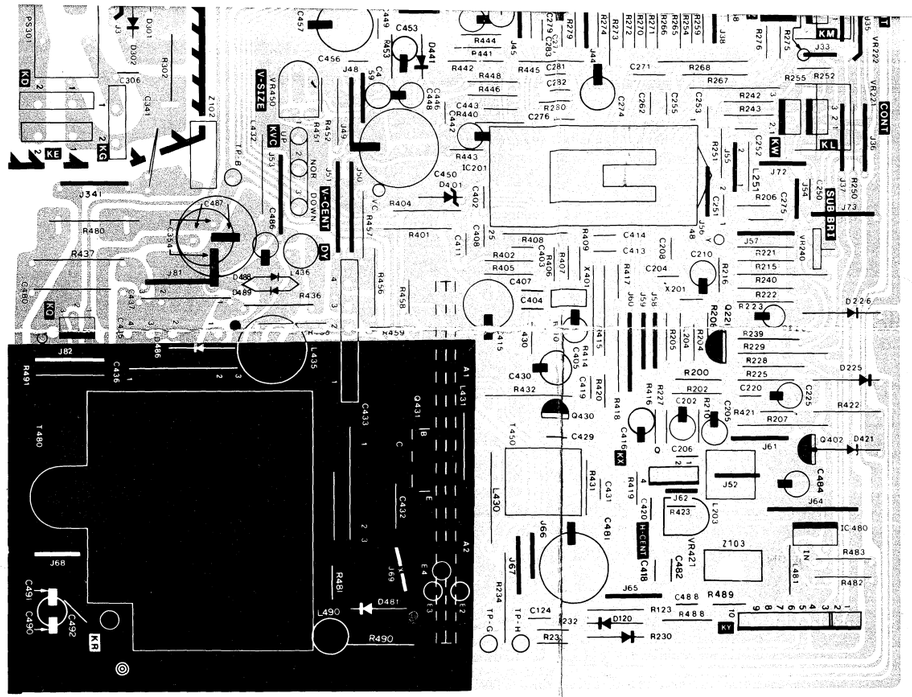


TUNER CIRCUIT BOARD

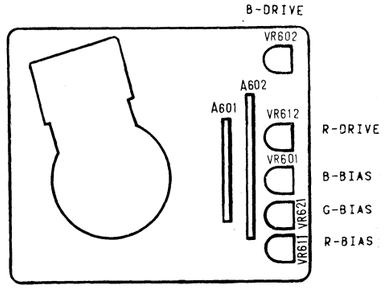
CIRCUIT SIDE

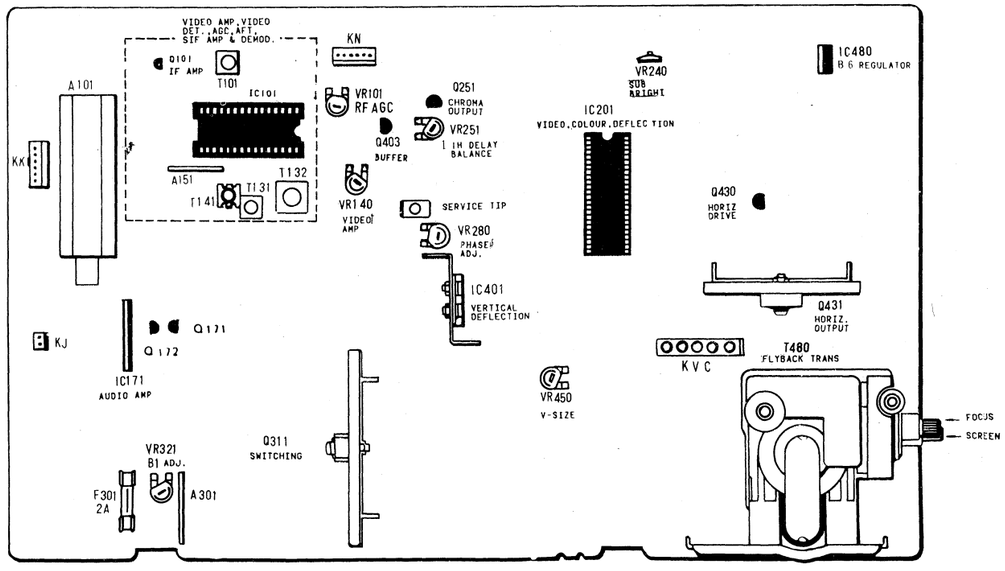


EB1209



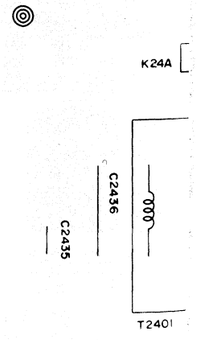
COMPONENT LOCATION



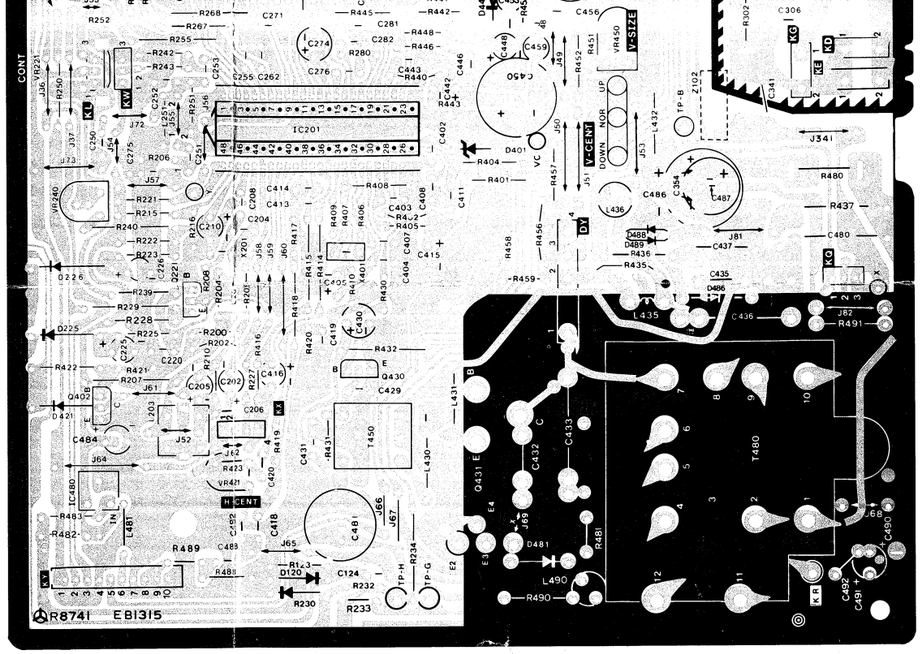


PCC BOARD

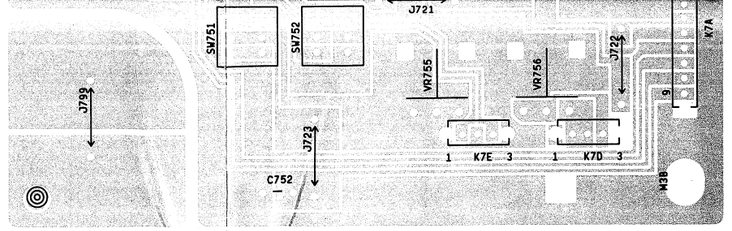
CIRCUIT SIDE



277			PS301
266			VR252
265			VR222
254			
259			
268			VR450
267			VR221
255			
252			
251			
	L432		
250	L251		
206			VR240
409			
221	L436		
215			
240			
216			
222	X201		
229	X401		
223			
228			
226	L204		
205	L205		
208			
224	L435		
239			
226			
225			
210	L431		
422			
207	T480		
	T450		
	L430		
419			
	L203		
			VR421
483			
481			
123			
230			



EB1315



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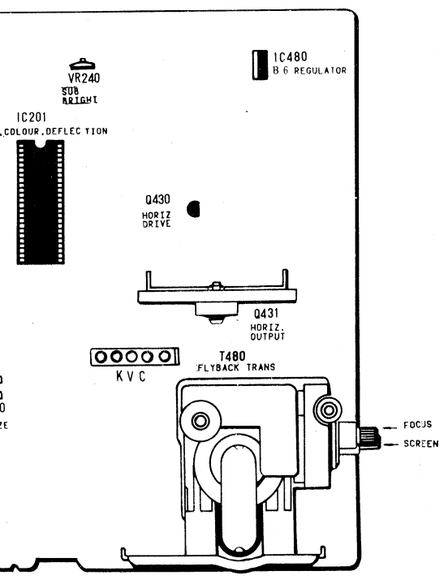
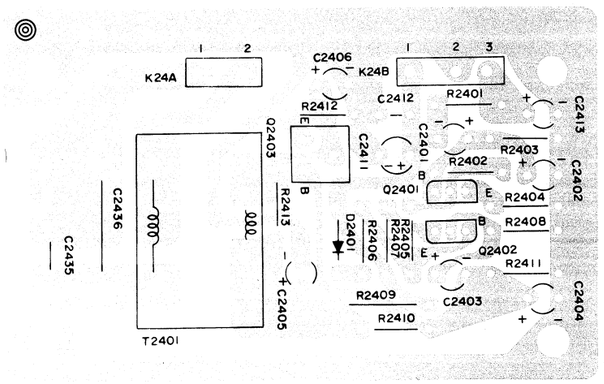


PCC BOARD

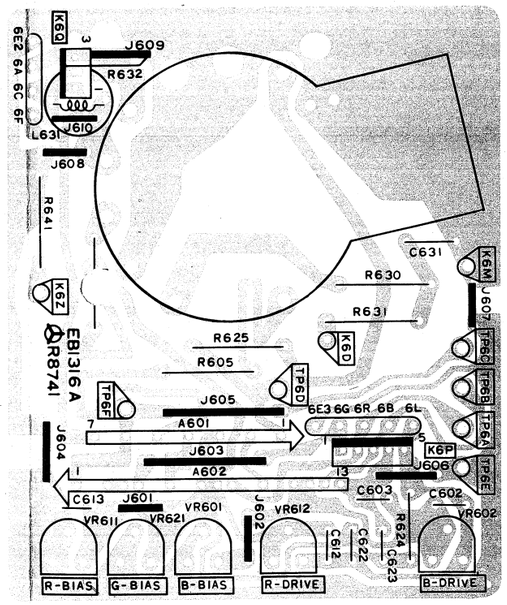
CIRCUIT SIDE



EB1269

CRT BOARD

COMPONENT SIDE



EB1316